

## SEQUENCE LISTING

SEQ ID NO:1

## SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 17

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

## SEQUENCE

Asp Arg Met Pro Cys Arg Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys

1

5

10

15

Lys

SEQ ID NO:2

## SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 15

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

## SEQUENCE

Met Pro Cys Arg Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys Lys

1

5

10

15

SEQ ID NO:3

**SEQUENCE CHARACTERISTICA****LENGTH OF THE SEQUENCE: 13****TYPE OF THE SEQUENCE: Amino acid****TOPOLOGY: Linear****MOLECULE TYPE OF THE SEQUENCE: Peptide****SEQUENCE**

Cys Arg Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys Lys

1

5

10

**SEQ ID NO:4****SEQUENCE CHARACTERISTICA****LENGTH OF THE SEQUENCE: 29****TYPE OF THE SEQUENCE: Amino acid****TOPOLOGY: Linear****MOLECULE TYPE OF THE SEQUENCE: Peptide****SEQUENCE**

Gln Glu Gly Ala Pro Pro Gln Gln Ser Ala Arg Arg Asp Arg Met Pro

1

5

10

15

Cys Arg Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys Lys

20

25

**SEQ ID NO:5****SEQUENCE CHARACTERISTICA****LENGTH OF THE SEQUENCE: 62**

**TYPE OF THE SEQUENCE: Amino acid**

**TOPOLOGY: Linear**

**MOLECULE TYPE OF THE SEQUENCE: Peptide**

**SEQUENCE**

Ser Ser Leu Leu Thr Phe Leu Ala Trp Trp Phe Glu Trp Thr Ser Gln  
 1 5 10 15  
 Ala Ser Ala Gly Pro Leu Ile Gly Glu Glu Ala Arg Glu Val Ala Arg  
 20 25 30  
 Arg Gln Glu Gly Ala Pro Pro Gln Gln Ser Ala Arg Arg Asp Arg Met  
 35 40 45  
 Pro Cys Arg Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys Lys  
 50 55 60

**SEQ ID NO:6**

**SEQUENCE CHARACTERISTICA**

**LENGTH OF THE SEQUENCE: 85**

**TYPE OF THE SEQUENCE: Amino acid**

**TOPOLOGY: Linear**

**MOLECULE TYPE OF THE SEQUENCE: Peptide**

**SEQUENCE**

Leu Pro Leu Glu Gly Gly Pro Thr Gly Arg Asp Ser Glu His Met Gln  
 1 5 10 15  
 Glu Ala Ala Gly Ile Arg Lys Ser Ser Leu Leu Thr Phe Leu Ala Trp  
 20 25 30

Met Pro Leu Ser Pro Gly Leu Leu Leu Leu Leu Leu Ser Gly Ala Thr  
1 5 10 15  
Ala Thr Ala Ala Leu Pro Leu Glu Gly Gly Pro Thr Gly Arg Asp Ser  
20 25 30  
Glu His Met Gln Glu Ala Ala Gly Ile Arg Lys Ser Ser Leu Leu Thr  
35 40 45  
Phe Leu Ala Trp Trp Phe Glu Trp Thr Ser Gln Ala Ser Ala Gly Pro  
50 55 60

Leu Ile Gly Glu Glu Ala Arg Glu Val Ala Arg Arg Gln Glu Gly Ala  
 65                      70                      75                      80  
 Pro Pro Gln Gln Ser Ala Arg Arg Asp Arg Met Pro Cys Arg Asn Phe  
                     85                      90                      95  
 Phe Trp Lys Thr Phe Ser Ser Cys Lys  
                     100                      105

SEQ ID NO:8

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 12

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Gln Glu Gly Ala Pro Pro Gln Gln Ser Ala Arg Arg  
 1                      5                      10

SEQ ID NO:9

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 33

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Ser Ser Leu Leu Thr Phe Leu Ala Trp Trp Phe Glu Trp Thr Ser Gln

1 5 10 15

Ala Ser Ala Gly Pro Leu Ile Gly Glu Glu Ala Arg Glu Val Ala Arg

20 25 30

Arg

SEQ ID NO:10

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 23

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Leu Pro Leu Glu Gly Gly Pro Thr Gly Arg Asp Ser Glu His Met Gln

1 5 10 15

Glu Ala Ala Gly Ile Arg Lys

20

SEQ ID NO:11

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 20

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

## 20

**MOLECULE TYPE OF THE SEQUENCE:** Peptide.

## Pro Pro Gln Gln Ser Ala Arg Arg

**SEQ ID NO: 13**

**TYPE OF THE SEQUENCE:** Nucleic acid

**TOPOLOGY: Linear**

**MOLECULE TYPE: cDNA**

## SEQUENCE

GACAGAATGC CCTGCAGGAA CTTCTTCTGG AAGACCTTCT CCTCCTGCAA A

51

SEQ ID NO:14

**LENGTH OF THE SEQUENCE: 45**

**TYPE OF THE SEQUENCE:** Nucleic acid

**STRANDEDNESS: Double**

**TOPOLOGY:** Linear

**MOLECULE TYPE: cDNA**

## SEQUENCE

ATGCCCTGCA GGAAGTTCTT CTGGAAGACC TTCTCCTCCT GCAA

45

SEQ ID NO:15

**LENGTH OF THE SEQUENCE: 39**

**TYPE OF THE SEQUENCE:** Nucleic acid

**STRANDEDNESS: Double**



TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

TGCAGGAAGT TCTTCTGGAA GACCTTCTCC TCCTGCAAA

39

SEQ ID NO:16

LENGTH OF THE SEQUENCE: 87

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

CAGGAAGGCG CACCCCCCA GCAATCCGCG CGCCGGGACA GAATGCCCTG CAGGAAGTTC 60

TTCTGGAAGA CCTTCTCCTC CTGCAAA 87

SEQ ID NO:17

LENGTH OF THE SEQUENCE: 87

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

CAGGAAGGCG CACCCCCCA GCAATCTGCG CGCCGGGACA GAATGCCCTG CAGGAAGTTC 60

TTCTGGAAGA CCTTCTCCTC CTGCAAA 87

SEQ ID NO:18

LENGTH OF THE SEQUENCE: 186

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

AGCAGCCTCC TGACTTTCCT CGCTTGGTGG TTTGAGTGGA CCTCCCAGGC CAGTGCCGGG 60  
CCCCTCATAG GAGAGGAAGC TCGGGAGGTG GCCAGGCGGC AGGAAGGCGC ACCCCCCCAG 120  
CAATCCGCGC GCCGGGACAG AATGCCCTGC AGGAACTTCT TCTGGAAGAC CTTCTCCTCC 180  
TGCAAA 186

SEQ ID NO:19

LENGTH OF THE SEQUENCE: 186

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

AGCAGCCTCC TGACTTTCCT CGCTTGGTGG TTTGAGTGGA CCTCCCAGGC CAGTGCCGGG 60  
CCCCTCATAG GAGAGGAAGC TCGGGAGGTG GCCAGGCGGC AGGAAGGCGC ACCCCCCCAG 120  
CAATCTGCGC GCCGGGACAG AATGCCCTGC AGGAACTTCT TCTGGAAGAC CTTCTCCTCC 180  
TGCAAA 186

SEQ ID NO:20

LENGTH OF THE SEQUENCE: 255

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

CTGCCCCTGG AGGGTGGCCC CACCGGCCGA GACAGCGAGC ATATGCAGGA AGCGGCAGGA 60  
ATAAGGAAAA GCAGCCTCCT GACTTTCCTC GCTTGGTGGT TTGAGTGGAC CTCCCAGGCC 120  
AGTGCCGGGC CCCTCATAGG AGAGGAAGCT CGGGAGGTGG CCAGGCGGCA GGAAGGCGCA 180  
CCCCCCCAGC AATCCGCGCG CCGGGACAGA ATGCCCTGCA GGAACCTCTT CTGGAAGACC 240  
TTCTCCTCCT GCAAA 255

SEQ ID NO:21

LENGTH OF THE SEQUENCE: 255

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

CTGCCCCTGG AGGGTGGCCC CACCGGCCGA GACAGCGAGC ATATGCAGGA AGCGGCAGGA 60  
ATAAGGAAAA GCAGCCTCCT GACTTTCCTC GCTTGGTGGT TTGAGTGGAC CTCCCAGGCC 120  
AGTGCCGGGC CCCTCATAGG AGAGGAAGCT CGGGAGGTGG CCAGGCGGCA GGAAGGCGCA 180

CCCCCCCAGC AATCTGCGCG CCGGGACAGA ATGCCCTGCA GGAATTCTT CTGGAAGACC 240  
TTCTCCTCCT GCAAA 255

SEQ ID NO:22

LENGTH OF THE SEQUENCE: 255

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

ATGCCATTGT CCCCCGGCCT CCTGCTGCTG CTGCTCTCCG GGGCCACGGC CACCGCTGCC 60  
CTGCCCCCTGG AGGGTGGCCC CACCGGCCGA GACAGCGAGC ATATGCAGGA AGCGGCAGGA 120  
ATAAGGAAAA GCAGCCTCCT GACTTTCCTC GCTTGGTGGT TTGAGTGGAC CTCCCAGGCC 180  
AGTGCCGGGC CCCTCATAGG AGAGGAAGCT CGGGAGGTGG CCAGGCGGCA GGAAGGCGCA 240  
CCCCCCCAGC AATCCGCGCG CCGGGACAGA ATGCCCTGCA GGAATTCTT CTGGAAGACC 300  
TTCTCCTCCT GCAAA 315

SEQ ID NO:23

LENGTH OF THE SEQUENCE: 315

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

ATGCCATTGT CCCCCGGCCT CCTGCTGCTG CTGCTCTCCG GGGCCACGGC CACCGCTGCC 60  
CTGCCCCCTGG AGGGTGGCCC CACCGGCCGA GACAGCGAGC ATATGCAGGA AGCGGCAGGA 120  
ATAAGGAAAA GCAGCCTCCT GACTTTCCTC GCTTGGTGGT TTGAGTGGAC CTCCCAGGCC 180  
AGTGCCGGGC CCCTCATAGG AGAGGAAGCT CGGGAGGTGG CCAGGCGGCA GGAAGGCGCA 240  
CCCCCCCAGC AATCTGCGCG CCGGGACAGA ATGCCCTGCA GGAATTCTT CTGGAAGACC 300  
TTCTCCTCCT GCAA 315

SEQ ID NO:24

LENGTH OF THE SEQUENCE: 36

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

CAGGAAGGCG CACCCCCCA GCAATCCGCG CGCCGG 36

SEQ ID NO:25

LENGTH OF THE SEQUENCE: 36

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

CAGGAAGGCG CACCCCCCA GCAATCTGCG CGCCGG 36

SEQ ID NO:26

LENGTH OF THE SEQUENCE: 99

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

AGCAGCCTCC TGA CTTTCCT CGCTTGGTGG TTTGAGTGGA CCTCCCAGGC CAGTGCCGGG 60  
CCCCTCATAG GAGAGGAAGC TCGGGAGGTG GCCAGGCGG 99

SEQ ID NO:27

LENGTH OF THE SEQUENCE: 69

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

CTGCCCCCTGG AGGGTGGCCC CACCGGCCGA GACAGCGAGC ATATGCAGGA AGCGGCAGGA 60  
ATAAGGAAA 69

SEQ ID NO:28

LENGTH OF THE SEQUENCE: 60

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

ATGCCATTGT CCCCCGGCCT CCTGCTGCTG CTGCTCTCCG GGGCCACGGC CACCGCTGCC 60

SEQ ID NO:29

LENGTH OF THE SEQUENCE: 264

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

ATGCCATTGT CCCCCGGCCT CCTGCTGCTG CTGCTCTCCG GGGCCACGGC CACCGCTGCC 60  
CTGCCCCCTGG AGGGTGGCCC CACCGGCCGA GACAGCGAGC ATATGCAGGA AGCGGCAGGA 120  
ATAAGGAAAA GCAGCCTCCT GACTTTCCTC GCTTGGTGGT TTGAGTGGAC CTCCCAGGCC 180  
AGTGCCGGGC CCCTCATAGG AGAGGAAGCT CGGGAGGTGG CCAGGCGGCA GGAAGGCGCA 240  
CCCCCCCAGC AATCCGCGCG CCGG 264

SEQ ID NO:30

LENGTH OF THE SEQUENCE: 264

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

**MOLECULE TYPE: cDNA**

**SEQUENCE**

ATGCCATTGT CCCCCGGCCT CCTGCTGCTG CTGCTCTCCG GGGCCACGGC CACCGCTGCC 60  
 CTGCCCCCTGG AGGGTGGCCC CACCGGCCGA GACAGCGAGC ATATGCAGGA AGCGGCAGGA 120  
 ATAAGGAAAA GCAGCCTCCT GACTTTCCTC GCTTGGTGGT TTGAGTGGAC CTCCCAGGCC 180  
 AGTGCCGGGC CCCTCATAGG AGAGGAAGCT CGGGAGGTGG CCAGGCGGCA GGAAGGCGCA 240  
 CCCCCCAGC AATCTGCGCG CCGG 264

**SEQ ID NO:31**

**SEQUENCE CHARACTERISTICA**

**LENGTH OF THE SEQUENCE: 14**

**TYPE OF THE SEQUENCE: Amino acid**

**TOPOLOGY: Linear**

**MOLECULE TYPE OF THE SEQUENCE: Peptide**

**SEQUENCE**

Pro Cys Lys Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys Lys

1

5

10

**SEQ ID NO:32**

**SEQUENCE CHARACTERISTICA**

**LENGTH OF THE SEQUENCE: 14**

**TYPE OF THE SEQUENCE: Amino acid**

**TOPOLOGY: Linear**

**MOLECULE TYPE OF THE SEQUENCE: Peptid**

552022103420200



**SEQUENCE**

Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys

1

5

10

**SEQ ID NO:33****LENGTH OF THE SEQUENCE: 42****TYPE OF THE SEQUENCE: Nucleic acid****STRANDEDNESS: Single****TOPOLOGY: Linear****MOLECULE TYPE: cDNA****SEQUENCE**

CCCTGCAAGA ACTTCTTCTG GAAAACCTTC TCCTCGTGCA AG

42

**SEQ ID NO:34****LENGTH OF THE SEQUENCE: 42****TYPE OF THE SEQUENCE: Nucleic acid****STRANDEDNESS: Single****TOPOLOGY: Linear****MOLECULE TYPE: cDNA****SEQUENCE**

GCTGGCTGCA AGAACTTCTT CTGGAAGACA TTCACATCCT GT

42

**SEQ ID NO:35****SEQUENCE CHARACTERISTICA**

2025-05-20 10:20:20

LENGTH OF THE SEQUENCE: 16

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Asp Arg Met Pro Cys Arg Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys

1

5

10

15

SEQ ID NO:36

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 14

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Met Pro Cys Arg Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys

1

5

10

SEQ ID NO:37

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 12

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

**SEQUENCE**

Cys Arg Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys

1 5 10

**SEQ ID NO:38****SEQUENCE CHARACTERISTICA****LENGTH OF THE SEQUENCE: 17****TYPE OF THE SEQUENCE: Amino acid****TOPOLOGY: Linear****MOLECULE TYPE OF THE SEQUENCE: Peptide****SEQUENCE**

Asp Arg Met Pro Cys Lys Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys

1 5 10 15

**SEQ ID NO:39****SEQUENCE CHARACTERISTICA****LENGTH OF THE SEQUENCE: 15****TYPE OF THE SEQUENCE: Amino acid****TOPOLOGY: Linear****MOLECULE TYPE OF THE SEQUENCE: Peptide****SEQUENCE**

Met Pro Cys Lys Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys Lys

1 5 10 15

## SEQUENCE CHARACTERISTICA

**TYPE OF THE SEQUENCE:** Amino acid

**TOPOLOGY: Linear**

**MOLECULE TYPE OF THE SEQUENCE:** Peptide

## SEQUENCE

Cys Lys Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys Lys

**1    5    10**

SEQ ID NO: 41

## SEQUENCE CHARACTERISTICA

**LENGTH OF THE SEQUENCE: 16**

**TYPE OF THE SEQUENCE:** Amino acid

**TOPOLOGY: Linear**

**MOLECULE TYPE OF THE SEQUENCE:** Peptide

## SEQUENCE

Asp Arg Met Pro Cys Lys Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys

**1                      5                      10                      15**

SEQ ID NO: 42

## SEQUENCE CHARACTERISTICA

**LENGTH OF THE SEQUENCE: 14**

**TYPE OF THE SEQUENCE:** Amino acid

## SEQUENCE

[illegible]

## SEQUENCE CHARACTERISTICA

**TYPE OF THE SEQUENCE:** Amino acid

**MOLECULE TYPE OF THE SEQUENCE:** Peptide

## SEQUENCE

[illegible]

## SEQUENCE CHARACTERISTICA

**TYPE OF THE SEQUENCE:** Amino acid

**MOLECULE TYPE OF THE SEQUENCE:** Peptide

## SEQUENCE

Asp Arg Met Pro Cys Arg Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys Lys

1 5 10 15

SEQ ID NO:45

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 15

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Met Pro Cys Arg Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys Lys

1 5 10

SEQ ID NO:46

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 13

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Cys Arg Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys Lys

1 5 10

SEQ ID NO:47

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 16

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Asp Arg Met Pro Cys Arg Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys

1

5

10

15

SEQ ID NO:48

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 14

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Met Pro Cys Arg Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys

1

5

10

SEQ ID NO:49

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 12

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

**SEQUENCE**

Cys Arg Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys

1

5

10

**SEQ ID NO:50****SEQUENCE CHARACTERISTICA****LENGTH OF THE SEQUENCE: 17****TYPE OF THE SEQUENCE: Amino acid****TOPOLOGY: Linear****MOLECULE TYPE OF THE SEQUENCE: Peptide****SEQUENCE**

Asp Arg Met Pro Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys Lys

1

5

10

15

**SEQ ID NO:51****SEQUENCE CHARACTERISTICA****LENGTH OF THE SEQUENCE: 15****TYPE OF THE SEQUENCE: Amino acid****TOPOLOGY: Linear****MOLECULE TYPE OF THE SEQUENCE: Peptide****SEQUENCE**

Met Pro Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys Lys

1

5

10



## SEQUENCE CHARACTERISTICA

**TYPE OF THE SEQUENCE:** Amino acid

**MOLECULE TYPE OF THE SEQUENCE:** Peptide

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys Lys

**SEQ ID NO: 53**

## SEQUENCE CHARACTERISTICS

**LENGTH OF THE SEQUENCE: 16**

**TYPE OF THE SEQUENCE:** Amino acid

**TOPOLOGY: Linear**

**MOLECULE TYPE OF THE SEQUENCE:** Peptide

## SEQUENCE

Asp Arg Met Pro Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys

1                      5                      10                      15

SEQ ID NO: 54

## SEQUENCE CHARACTERISTICA

**LENGTH OF THE SEQUENCE: 14**

**TYPE OF THE SEQUENCE:** Amino acid

**1**                      **5**                      **10**

**MOLECULE TYPE OF THE SEQUENCE:** Peptide

**1                      5                      10**

**MOLECULE TYPE OF THE SEQUENCE:** Peptide

Gln Glu Gly Ala Pro Pro Gln Gln Ser Ala Arg Arg Asp Arg Met Pro

1                    5                    10                    15  
Cys Lys Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys Lys  
20                    25

SEQ ID NO:57

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 29

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Gln Glu Gly Ala Pro Pro Gln Gln Ser Ala Arg Arg Asp Arg Met Pro  
1                    5                    10                    15  
Cys Arg Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys Lys  
20                    25

SEQ ID NO:58

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 29

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Gln Glu Gly Ala Pro Pro Gln Gln Ser Ala Arg Arg Asp Arg Met Pro

SEQ ID NO: 59

**LENGTH OF THE SEQUENCE: 28**

**TOPOLOGY:** Linear

**MOLECULE TYPE OF THE SEQUENCE:** Peptide

## SEQUENCE

SEQ ID NO:60

## SEQUENCE CHARACTERISTICS

**LENGTH OF THE SEQUENCE: 28**

**TYPE OF THE SEQUENCE:** Amino acid

**TOPOLOGY: Linear**

**MOLECULE TYPE OF THE SEQUENCE:** Peptide

## SEQUENCE

Gln Glu Gly Ala Pro Pro Gln Gln Ser Ala Arg Arg Asp Arg Met Pro

1                    5                    10                    15  
 Cys Arg Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys  
                   20                    25

SEQ ID NO:61

SEQUENCE CHARACTERISTICS

LENGTH OF THE SEQUENCE: 28

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Gln Glu Gly Ala Pro Pro Gln Gln Ser Ala Arg Arg Asp Arg-Met Pro

1                    5                    10                    15  
 Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys  
                   20                    25

SEQ ID NO:62

LENGTH OF THE SEQUENCE: 48

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

GACAGAATGC CCTGCAGGAA CTTCTTCTGG AAGACCTTCT CTCCTGCG

SEQ ID NO:63

LENGTH OF THE SEQUENCE: 42

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

ATGCCCTGCA GGAATTCTT CTGGAAGACC TTCTCCTCCT GC

42

SEQ ID NO:64

LENGTH OF THE SEQUENCE: 36

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

TGCAGGAAGT TCTTCTGGAA GACCTTCTCC TCCTGC

36

SEQ ID NO:65

LENGTH OF THE SEQUENCE: 51

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

**MOLECULE TYPE: cDNA**

**SEQUENCE**

GACAGAATGC CCTGCAARAA CTTCTTCTGG AAGACCTTCT CTCCTGCAA A 51

**SEQ ID NO:66**

**LENGTH OF THE SEQUENCE: 45**

**TYPE OF THE SEQUENCE: Nucleic acid**

**STRANDEDNESS: Double**

**TOPOLOGY: Linear**

**MOLECULE TYPE: cDNA**

**SEQUENCE**

ATGCCCTGCA ARAACTTCTT CTGGAAGACC TTCTCCTCCT GCAAA 45

**SEQ ID NO:67**

**LENGTH OF THE SEQUENCE: 39**

**TYPE OF THE SEQUENCE: Nucleic acid**

**STRANDEDNESS: Double**

**TOPOLOGY: Linear**

**MOLECULE TYPE: cDNA**

**SEQUENCE**

TGCAARAAC TCTTCTGGAA GACCTTCTCC TCCTGCAAA 39

**SEQ ID NO:68**

**LENGTH OF THE SEQUENCE: 48**

36



SEQ ID NO:71

LENGTH OF THE SEQUENCE: 51

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

GACAGAATGC CCTGCAGGAA CTTCTTCTGG AAGACCTTCT CCACNTGCAA A

51

SEQ ID NO:72

LENGTH OF THE SEQUENCE: 45

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

ATGCCCTGCA GGAATTCTT CTGGAAGACC TTCACNTCCT GCAAA

45

SEQ ID NO:73

LENGTH OF THE SEQUENCE: 39

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

TGCAGGAAC TCTTCTGGAA GACCTTCACN TCCTGCAAA

39

SEQ ID NO:74

LENGTH OF THE SEQUENCE: 48

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

GACAGAATGC CCTGCAGGAA CTTCTTCTGG AAGACCTTCT CCACNTGC

48

SEQ ID NO:75

LENGTH OF THE SEQUENCE: 42

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

ATGCCCTGCA GGAAC TTCTT CTGGAAGACC TTCACNTCCT GC

42

SEQ ID NO:76

LENGTH OF THE SEQUENCE: 36

36

51

45

SEQ ID NO:79

LENGTH OF THE SEQUENCE: 39

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

TGCAARAAC TCTTCTGGAA GACCTTCACN TCCTGCAAA

39

SEQ ID NO:80

LENGTH OF THE SEQUENCE: 48

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

GACAGAATGC CCTGCAARAA CTTCTTCTGG AAGACCTTCT CCACNTGCAA A

48

SEQ ID NO:81

LENGTH OF THE SEQUENCE: 42

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

ATGCCCTGCA ARAACTTCTT CTGGAAGACC TTCACNTCCT GCAAA

42

SEQ ID NO:82

LENGTH OF THE SEQUENCE: 36

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

TGCAARAAC TCTTCTGGAA GACCTTCACN TCCTGC

36

SEQ ID NO:83

LENGTH OF THE SEQUENCE: 87

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

CAGGAAGGCG CACCCCCCA GCAATCCGCG CGCCGGGACA GAATGCCCTG CAARAAC TTC 60

TTCTGGAAGA CCTTCTCCTC CTGCAAA

87

SEQ ID NO:84

LENGTH OF THE SEQUENCE: 87

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

CAGGAAGGCG CACCCCCCA GCAATCTGCG CGCCGGGACA GAATGCCCTG CAARAAC TTC 60  
TTCTGGAAGA CCTTCTCCTC CTGCAAA 87

SEQ ID NO:85

LENGTH OF THE SEQUENCE: 87

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

CAGGAAGGCG CACCCCCCA GCAATCCGCG CGCCGGGACA GAATGCCCTG CAGGAAC TTC 60  
TTCTGGAAGA CCTTCACNTC CTGCAAA 87

SEQ ID NO:86

LENGTH OF THE SEQUENCE: 87

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

**MOLECULE TYPE: cDNA**

**SEQUENCE**

CAGGAAGGCG CACCCCCCA GCAATCTGCG CGCCGGGACA GAATGCCCTG CAGGAACTTC 60  
TTCTGGAAGA CCTTCACNTC CTGCAAA 87

**SEQ ID NO:87**

**LENGTH OF THE SEQUENCE: 87**

**TYPE OF THE SEQUENCE: Nucleic acid**

**STRANDEDNESS: Double**

**TOPOLOGY: Linear**

**MOLECULE TYPE: cDNA**

**SEQUENCE**

CAGGAAGGCG CACCCCCCA GCAATCCGCG CGCCGGGACA GAATGCCCTG CAARAAC TTC 60  
TTCTGGAAGA CCTTCACNTC CTGCAAA 87

**SEQ ID NO:88**

**LENGTH OF THE SEQUENCE: 87**

**TYPE OF THE SEQUENCE: Nucleic acid**

**STRANDEDNESS: Double**

**TOPOLOGY: Linear**

**MOLECULE TYPE: cDNA**

**SEQUENCE**

CAGGAAGGCG CACCCCCCA GCAATCTGCG CGCCGGGACA GAATGCCCTG CAARAAC TTC 60  
TTCTGGAAGA CCTTCACNTC CTGCAAA 87

SEQ ID NO:89

LENGTH OF THE SEQUENCE: 84

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

CAGGAAGGCG CACCCCCCA GCAATCCGCG CGCCGGGACA GAATGCCCTG CAARAAC TTC 60  
TTCTGGAAGA CCTTCTCCTC CTGC 84

SEQ ID NO:90

LENGTH OF THE SEQUENCE: 84

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

CAGGAAGGCG CACCCCCCA GCAATCTGCG CGCCGGGACA GAATGCCCTG CAARAAC TTC 60  
TTCTGGAAGA CCTTCTCCTC CTGC 84

SEQ ID NO:91

LENGTH OF THE SEQUENCE: 84

TYPE OF THE SEQUENCE: Nucleic acid



**STRANDEDNESS: Double**

**TOPOLOGY: Linear**

**MOLECULE TYPE: cDNA**

**SEQUENCE**

CAGGAAGGCG CACCCCCCA GCAATCCGCG CGCCGGGACA GAATGCCCTG CAGGAACTTC 60  
TTCTGGAAGA CCTTCACNTC CTGC 84

**SEQ ID NO:92**

**LENGTH OF THE SEQUENCE: 84**

**TYPE OF THE SEQUENCE: Nucleic acid**

**STRANDEDNESS: Double**

**TOPOLOGY: Linear**

**MOLECULE TYPE: cDNA**

**SEQUENCE**

CAGGAAGGCG CACCCCCCA GCAATCTGCG CGCCGGGACA GAATGCCCTG CAGGAACTTC 60  
TTCTGGAAGA CCTTCACNTC CTGC 84

**SEQ ID NO:93**

**LENGTH OF THE SEQUENCE: 84**

**TYPE OF THE SEQUENCE: Nucleic acid**

**STRANDEDNESS: Double**

**TOPOLOGY: Linear**

**MOLECULE TYPE: cDNA**

**SEQUENCE**

CAGGAAGGCG CACCCCCCA GCAATCCGCG CGCCGGGACA GAATGCCCTG CAARAAC TTC 60  
TTCTGGAAGA CCTTCACNTC CTGC 84

SEQ ID NO:94

LENGTH OF THE SEQUENCE: 84

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

CAGGAAGGCG CACCCCCCA GCAATCTGCG CGCCGGGACA GAATGCCCTG CAARAAC TTC 60  
TTCTGGAAGA CCTTCACNTC CTGC 84

SEQ ID NO:95

LENGTH OF THE SEQUENCE: 30

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Single

TOPOLOGY: Linear

MOLECULE TYPE: Synthetic DNA

SEQUENCE

GGTCGACCTC AGCTAGGATG TTCCCCAATG 30

SEQ ID NO:96

LENGTH OF THE SEQUENCE: 28

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Single

TOPOLOGY: Linear

MOLECULE TYPE: Synthetic DNA

SEQUENCE

GGTCGACCCG GGCTCAGAGC GTCGTGAT

28

SEQ ID NO:97

LENGTH OF THE SEQUENCE: 28

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Single

TOPOLOGY: Linear

MOLECULE TYPE: Synthetic DNA

SEQUENCE

GGTCGACACC ATGGACATGG CGGATGAG

SEQ ID NO:98

LENGTH OF THE SEQUENCE: 26

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Single

TOPOLOGY: Linear

MOLECULE TYPE: Synthetic DNA

SEQUENCE

GGTCGACAGT TCAGATACTG GTTTGG

20250323

SEQ ID NO:99

LENGTH OF THE SEQUENCE: 30

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Single

TOPOLOGY: Linear

MOLECULE TYPE: Synthetic DNA

SEQUENCE

GGTCGACCTC AACCATGGAC ATGCTTCATC

30

SEQ ID NO:100

LENGTH OF THE SEQUENCE: 29

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Single

TOPOLOGY: Linear

MOLECULE TYPE: Synthetic DNA

SEQUENCE

GGTCGACTTT CCCCAGGCCC CTACAGGTA

29

SEQ ID NO:101

LENGTH OF THE SEQUENCE: 28

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Single

TOPOLOGY: Linear

MOLECULE TYPE: Synthetic DNA

SEQUENCE

GGCTCGAGTC ACCATGAGCG CCCCCTCG

28

SEQ ID NO:102

LENGTH OF THE SEQUENCE: 45

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Single

TOPOLOGY: Linear

MOLECULE TYPE: Synthetic DNA

SEQUENCE

GGGCTCGAGC TCCTCAGAAG GTGGTGG

27

SEQ ID NO:103

LENGTH OF THE SEQUENCE: 28

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Single

TOPOLOGY: Linear

MOLECULE TYPE: Synthetic DNA

SEQUENCE

GGTCGACCAC CATGGAGCCC CTGTTCCC

28

SEQ ID NO:104

LENGTH OF THE SEQUENCE: 26

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Single

TOPOLOGY: Linear

MOLECULE TYPE: Synthetic DNA

SEQUENCE

CCGTCGACAC TCTCACAGCT TGCTGG

26

SEQ ID NO:105

LENGTH OF THE SEQUENCE: 28

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Single

TOPOLOGY: Linear

MOLECULE TYPE: Synthetic DNA

SEQUENCE

ACAAGATGCC ATTGTCCCCC GGCCTCCT

28

SEQ ID NO:106

LENGTH OF THE SEQUENCE: 27

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Single

TOPOLOGY: Linear

MOLECULE TYPE: Synthetic DNA

SEQUENCE

TTCAGGTCTG TAATTAACT TCGTGA

27

20250323 15:33:33

20200709 09:23:00